

## Index to Volume 59

The index is in two parts: the first deals with the articles, and the second with book reviews. The pagination in this volume is as follows:

Issue	1	2	3	4
Pages	1-110	111-220	221-330	331-450

### Articles

Articles are placed in alphabetical order of their authors.

- 109 Announcement
- 299 CARAZZA, B., and ROBOTTI, N. Explaining Atomic Spectra within Classical Physics: 1897-1913
- 221 CARNEIRO, R. L., and PERRIN, R. G. Herbert Spencer's *Principles of Sociology*: A Centennial Retrospective and Appraisal
- 111 COBB, M. Malpighi, Swammerdam and the Colourful Silkworm: Replication and Visual Representation in Early Modern Science
- 21 EMERSON, R. L. The Scientific Interests of Archibald Campbell, 1st Earl of Ilay and 3rd Duke of Argyll (1682-1761)
- 179 FERRARO, G. Convergence and Formal Manipulation of Series from the Origins of Calculus to About 1730
- 57 HENTSCHEL, K. Spectroscopic Portraiture
- 391 HOWARTH, R. J. Fitting Geomagnetic Fields before the Invention of Least Squares: I. Henry Bond's Predictions (1636, 1668) of the Change in Magnetic Declination in London
- 263 HULL, A. J. Food for Thought?: the Relations between the Royal Society Food Committees and Government, 1915-19
- 1 KARGON, R. H., and KNOWLES, S. G. Knowledge for Use: Science, Higher Learning, and America's New Industrial Heartland, 1880-1915
- 149 MILLER, D. P. 'Distributing Discovery' between Watt and Cavendish: a Reassessment of the Nineteenth-Century 'Water Controversy'
- 331 MORENO, R., VAN CLEEMPOEL, K., and KING, D. A Recently Discovered Sixteenth-Century Spanish Astrolabe
- 363 WARNER, D. J. Political Geodesy: the Army, the Air Force, and the World Geodetic System of 1960

### Book Reviews

Books are gathered together under the titles of sections that are used in the issues of the journal. Essay reviews commence the list as a group of their own.

#### Essay Reviews

- 419 BELLER, M. *Quantum Dialogue: The Making of a Revolution* (A. Kojevnikov)
- 83 DRAKE, S. *Essays on Galileo and the History and Philosophy of Science* (M. A. Finocchiaro)

- 413 DRAYTON, R. H. *Nature's Government: Science, Imperial Britain, and the 'Improvement' of the World* (M. T. Bravo)
- 201 FOWLER, D. *The Mathematics of Plato's Academy. A New Reconstruction* (S. Unguru)
- 89 HACOEN, M. H. *Karl Popper. The Formative Years, 1902-1945* (I. Grattan-Guinness)
- 321 HUNTER, M., and DAVIS, E. B. (editors) *The Works of Robert Boyle* (R.-M. Sargent)
- 419 KRAGH, H. *Quantum Generations: A History of Physics in the Twentieth Century* (A. Kojevnikov)
- 409 PICKSTONE, J. V. *Ways of Knowing: A New History of Science, Technology, and Medicine* (C. C. Gillispie)
- 409 PYENSON, L., and SHEETS-PYENSON, S. *Servants of Nature: A History of Scientific Institutions, Enterprises, and Sensibilities* (C. C. Gillispie)

#### Correction

- 211 PESIC, P. *Labyrinth: A Search for the Hidden Meaning of Science*

#### Editions and Selections

- 211 CLARK, W., GOLINSKI, J., and SCHAFER, S. (editors) *The Sciences in Enlightened Europe* (J. Gascoigne)
- 424 DASTON, L. (editor) *Biographies of Scientific Objects* (D. Kaiser)
- 426 GOZZA, P. (editor) *Number to Sound: The Musical Way to the Scientific Revolution* (D. Tannay)
- 423 KOHLSTEDT, S. G. (editor) *History of Women in the Sciences: Readings from Isis* (M. Terrall)
- 98 MCCALMAN, I. (editor) *An Oxford Companion to the Romantic Age: British Culture 1776-1832* (D. Knight)
- 97 VAN BERKEL, K., VAN HELDEN, A., and PALM, L. (editors) *A History of Science in the Netherlands: Survey, Themes and Reference* (L. Pyenson)

#### Biographies

- 99 CAMPBELL, J. *Rutherford: Scientist Supreme* (A. Hessenbruch)

#### Institutions; Education, Libraries, Museums

- 429 YANNI, C. *Nature's Museums: Victorian Science and the Architecture of Display* (H. G. Penny)

#### Philosophical Aspects of Science

- 430 MILLER, A. I. *Insights of Genius: Imagery and Creativity in Science and Art* (D. Topper)

#### Social Aspects of Science; Religion

- 434 JARDINE, L. *Ingenious Pursuits. Building the Scientific Revolution* (T. E. Huff)
- 432 O'MALLEY SJ, J. W., BAILEY, G. A., HARRIS, S. J., and KENNEDY SJ, T. F. (editors) *The Jesuits: Cultures, Sciences, and the Arts, 1540-1773* (N. Wilding)

*Astronomy and Cosmology, Space and Time*

- 213 CHRISTIANSON, J. R. *On Tycho's Island: Tycho Brahe and His Assistants, 1570-1601* (R. A. Jarrell)
- 214 WILLMOTH, F. (editor) *Flamsteed's Stars: New Perspectives on the Life and Work of the First Astronomer Royal, 1646-1719* (A. Chapman)

*Physical Sciences; Heat, Optics, Chemistry*

- 439 BUCHWALD, J. Z., and COHEN, I. B. (editors) *Isaac Newton's Natural Philosophy* (I. Grattan-Guinness)
- 436 CHEN, X. *Instrumental Traditions and Theories of Light: The Uses of Instruments in the Optical Revolution* (H. Chang)
- 101 MORUS, I. R. *Frankenstein's Children: Electricity, Exhibition, and Experiment in Early-Nineteenth-Century London* (F. A. J. L. James)
- 440 ROCKE, A. *Nationalizing Science: Adolphe Wurtz and the Battle for French Chemistry* (D. Knight)

*Technology and Engineering*

- 102 GALISON, P., and ROLAND, A. (editors) *Atmospheric Flight in the Twentieth Century* (J. R. Hansen)
- 104 HIGGS, E., LIGHT, A., and STRONG, D. (editors) *Technology and the Good Life?* (D. Ihde)
- 441 INKSTER, I., and SATOFUKA, F. (editors) *Culture and Technology in Modern Japan* (K. Ito)
- 216 MERRILL, K. R. (editor) *The Modern Worlds of Business and Industry: Cultures, Technology, Labor* (M. G. Blackford)
- 327 REDMOND, K. C., and SMITH, T. M. *From Whirlwind to MITRE: the R&D Story of the SAGE Air Defense Computer* (P. E. Ceruzzi)

*Instruments and Measurement*

- 328 KING, D. A. *World-maps for Finding the Direction and Distance to Mecca: Innovation and Tradition in Islamic Science* (C. Burnett)
- 106 MEINEL, C. (editor) *Instrument - Experiment: Historische Studien* (M. Dörries)
- 217 TURNER, G. L'E. *Elizabethan Instrument Makers: The Origins of the London Trade in Precision Instrument Making* (D. J. Bryden)

*Earth Sciences*

- 107 ORESKES, N. *The Rejection of Continental Drift: Theory and Method in American Earth Science* (G. L. Bynum)

*Life Sciences*

- 443 APPEL, T. A. *Shaping Biology: The National Science Foundation and American Biological Research, 1945-1975* (J. Maienschein)
- 218 BEULLENS, P., and BOSSIER, F. (editors) *Aristoteles Latinus, XVII 2.1.1. De historia animalium: Translatio Guillelmi de Morbekia* (C. Burnett)

*Medicine and Health*

- 445 GRMEK, M. D. (editor) *Western Medical Thought from Antiquity to the Middle Ages* (R. K. French)
- 219 RISSE, G. B. *Mending Bodies, Saving Souls. A History of Hospitals* (C. Lawrence)

